



## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the application of

STEVEN LUO

Serial No. 10/085,279

Filed February 27, 2002

For PREPARATION OF CONJUGATED  
DIENE POLYMERS BY USING  
AN IRON-BASED CATALYST  
SYSTEMAssistant Commissioner for Patents  
Washington, D.C. 20231

## CERTIFICATE OF MAILING

I hereby certify that this correspondence was deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231 on June 7, 2002.

*Kimberly A. Bright*  
Kimberly A. Bright, Secy to Arthur M. Regenfuss

*RECEIVED*  
JUN 18 2002  
TC 1700

**INFORMATION DISCLOSURE STATEMENT**  
**37 C.F.R. § 1.97(b)**

Sir:

Applicants submit this paper to introduce art that they wish to have the Examiner consider. 37 C.F.R. §§ 1.56 & 1.97.

The art has been listed on the attached modified PTO Forms 1449. This includes thirty-one U.S. patents, three foreign patents, two references, and three abstracts of foreign patents. The Applicants also wish to notify the Examiner of copending applications. These applications bear U.S. Serial Nos. 09/938,788, 09/788,802, 09/897,687, 09/850,519, 09/850,240, 10/053,730, 10/079,205, and 09/788,800. The claims of these copending applications have been enclosed. Copies of these references have been enclosed pursuant 37 C.F.R. § 1.98(a)(2).

No representation is made that a specific search has been made by the Applicants, that the information is material to the claimed subject matter, or that the information is non-cumulative, or that the information represents the only or the best information. The Applicants do not admit that any of the information they have provided is necessarily prior to their invention but rather that it is information known of at this time. Any question that may arise regarding priority of a specific reference shall be resolved during prosecution.

The enclosed documents are being submitted for the express purpose of providing the Patent and Trademark Office with the opportunity to make an evaluation and to arrive at an independent assessment of materiality of each document to the examination of this application. The Examiner is requested to disregard any markings on the documents.

Applicants respectfully request that the information cited be made of record in the subject case.

**IDENTIFICATION OF TIME OF FILING THE INFORMATION  
DISCLOSURE STATEMENT**

The Information Disclosure Statement submitted herewith is being filed before the mailing of a first Office Action or within three months of its filing. No certification or fee is due with this filing of the Information Disclosure Statement. 37 C.F.R. 1.97(b).

Respectfully Submitted,



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June 7, 2002

Form PTO-1449 U.S. DEPARTMENT OF COMMERCE  
(Rev. 8-83) PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE CITATION

O I P E  
JUN 13 2002  
PATENT AND TRADEMARK OFFICE  
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(Use several sheets if necessary)

ATTY. DOCKET NO.  
P98036US3A(P317)SERIAL NO.  
10/085,279APPLICANT  
LUOFILING DATE  
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## U.S. PATENT DOCUMENTS

*EXAMINER'S Initial	Document Number	Date	Name	Class	Subclass	Filing Date (If Appropriate)
	3,419,505	12/68	Marsico	260	2	
	3,457,186	7/69	Marsico	252	429	
	3,457,250	7/69	Gaeth	260	94.3	
	3,498,963	3/70	Ichikawa et al.	260	94.3	
	3,725,373	4/73	Yoo	260	88.7	
	3,778,424	12/73	Suginura et al.	260	94.3	
	3,957,894	5/76	Saeki et al.	260	666	
	4,048,418	9/77	Throckmorton	526	138	
	4,168,357	9/79	Throckmorton et al.	526	139	
	4,168,374	9/79	Throckmorton et al.	526	139	
	4,182,813	1/80	Makino et al.	526	92	
	4,751,275	6/88	Witte et al.	526	139	
	5,239,023	8/93	Hsu et al.	526	141	
	5,356,997	10/94	Massie, II et al.	525	237	
	5,677,405	10/97	Goodall et al.	526	281	
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EXAMINER

DATE CONSIDERED

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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(Rev. 8-83) PATENT AND TRADEMARK OFFICE

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GROUP

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## U.S. PATENT DOCUMENTS

*Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date (If Appropriate)
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	6,284,702	9/01	Luo	502	154	
	6,320,004	11/01	Luo	526	126	
	6,331,594	12/01	Luo	525	247	18 JUN 2002
	2001/0012878	8/01	Luo	526	139	100

## FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Subclass	Translation Yes	Translation No
	00/75201 A1	12/00	WIPO				
	01/32724 A1	5/01	WIPO				
	0 994 129 A1	4/00	Europe				

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	English Abstract of Japanese Patent No. 45011154.
	English Abstract of Japanese Patent No. 48064178.
	English Abstract of Japanese Patent No. 73006939.
	“Syndiotactic 1,2-Polybutadiene with Co-CS <sub>2</sub> Catalyst System I. Preparation Properties and Application of Highly Crystalline Syndiotactic 1,2-Polybutadiene, II. Catalyst for Stereospecific Polymerization of Butadiene to Syndiotactic 1,2-Polybutadiene, III. <sup>1</sup> H and <sup>13</sup> C-NMR Study of Highly Syndiotactic 1,2-Polybutadiene and IV Mechanism of Syndiotactic Polymerization of Butadiene with Cobalt Compounds-Organoauminum-CS <sub>2</sub> , Journal of Polymer Science: Polymer Chemistry Edition, by H. Ashitaka et al., Vol. 21, pp. 1853-1860 and 1951-1995, (1983)
	Comprehensive Polymer Science, by Porri and Giarrusso, Pergamon Press, Oxford, Vol. 4, pp. 53, (1989)

EXAMINER

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